



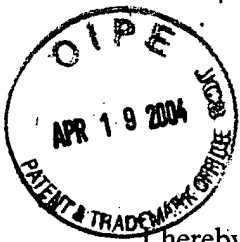
<b>TRANSMITTAL FORM</b>  (To be used for all correspondence after initial filing)	Application Number	10/763,398
	Filing Date	January 23, 2004
	First Named Inventor	Christen M. Anderson
	Art Unit	
	Examiner Name	
	Attorney Docket No.	660088.443C1

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement; Form PTO-1449 <input type="checkbox"/> Cited References <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts under 37 C.F.R. 1.52 or 1.53 <input type="checkbox"/> Response to Missing Parts/Incomplete Application	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Request for Corrected Filing Receipt <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Declaration <input type="checkbox"/> Statement under 37 CFR 3.73(b) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund	<input type="checkbox"/> CD(s), Number of CD(s) _____ <input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Return Receipt Postcard <input type="checkbox"/> Additional Enclosure(s) (please identify below): _____ _____ _____
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Individual Name	Stephen J. Rosenman, Ph.D.	Customer Number <b>00500</b>
Signature		
Date	April 15, 2004	

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.		
Typed or printed name	Jason A. Over	
Signature		Date: April 15, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. 472382



PATENT

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April 15, 2004  
Date

Jason Añover

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Christen M. Anderson et al.  
Application No. : 10/763,398  
Filed : January 23, 2004  
For : PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR  
(ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS  
THEREFOR

Docket No. : 660088.443C1

Date : April 15, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

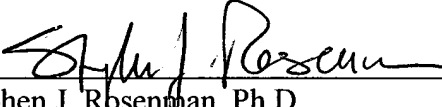
In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached Form PTO-1449. This application is a continuation and relies, under 35 U.S.C. § 120, on the earlier filing date of prior Application No. 09/569,327, filed May 11, 2000, which is a CIP of prior Application No. PCT/US99/25883, filed November 3, 1999, which is a CIP of prior Application No. 09/393,441, filed September 8, 1999, which is a CIP of prior Application No. 09/185,904, filed November 3, 1998. The references listed on the attached Form PTO-1449 were submitted to and/or cited by the Patent and Trademark Office in this prior application and, therefore, are not required to be provided in this application. If the Examiner wishes, copies will be provided upon

request. As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,  
Seed Intellectual Property Law Group PLLC

  
\_\_\_\_\_  
Stephen J. Rosenman, Ph.D.  
Registration No. 43,058

Enclosures:

Postcard  
Form PTO-1449

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Fax: (206) 682-6031

472383

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 660088.443C1		APPLICATION NO. 10/763,398	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Christen M. Anderson et al.			
				FILING DATE January 23, 2004		GROUP ART UNIT	
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,011,912	04/30/91	Hopp et al.	530	387	
	AB	2001/0044144	11/22/01	Anderson et al.	435	183	
	AC	2002/0177185	11/28/02	Anderson et al.	435	69.1	
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	AD	0 130 074 A1	01/02/85	EP			
	AE	0 477 961 A2	04/01/92	EP			
	AF	0 723 018	07/24/96	EP			
	AG	0 770 610 A1	05/02/97	EP			
	AH	WO 98/19714	05/14/98	WIPO			
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AI	Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," <i>Science</i> 252:1651-1656, June 21, 1991.					
	AJ	Adrian et al., "Sequences Required for Delivery and Localization of the ADP/ATP Translocator to the Mitochondrial Inner Membrane," <i>Molecular and Cellular Biology</i> 6(2):626-634, 1986.					
	AK	Allgood and Eastman, "Chimeric Receptors as Gene Switches," <i>Curr. Opin. Biotechnol.</i> 8:474-479, August 1997					
	AL	Aquila et al., "Complete Amino Acid Sequence of the ADP/ATP Carrier from Beef Heart Mitochondria," <i>Hoppe-Seyler's Z. Physiol. Chem.</i> 363:345-349, March 1982					
	AM	Ashkenazi et al., "Protection Against Endotoxic Shock By A Tumor Necrosis Factor Receptor Immunoadhesin," <i>Proc. Natl. Acad. Sci. USA</i> 88:10535-10539, December 1991.					
	AN	Ausserer et al., "Regulation of c-jun Expression During Hypoxic and Low-Glucose Stress," <i>Mol. Cell. Biol.</i> 14(8):5032-5042, August 1994.					
	AO	Battini et al., "Molecular Cloning of a cDNA for a Human ADP/ATP Carrier Which is Growth-Regulated," <i>J. Biol. Chem.</i> 262(9):4355-4359, March 25, 1987.					
EXAMINER				DATE CONSIDERED			
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	BA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	BB	WO 9828415	07/02/98	WIPO			
	BC	WO 99/07845	02/18/99	WIPO			
	BD	WO 00/19200	04/06/00	WIPO			
	BE	WO 00/26370	05/11/00	WIPO			
	BF	WO 01/02598	01/11/01	WIPO			
	BG	WO 01/32876	05/10/01	WIPO			
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	BH	Beavis et al., "On the Regulation of K <sup>+</sup> Uniport in Intact Mitochondria by Adenine Nucleotides and Nucleotide Analogs," <i>J. Biol. Chem.</i> 268(2):997-1004, January 15, 1993.					
	BI	Beutner et al., "Complexes Between Porin, Hexokinase, Mitochondrial Creatine Kinase and Adenylate Translocator Display Properties of the Permeability Transition Pore. Implication for Regulation of Permeability Transition by the Kinases," <i>Biochim. Biophys. Acta</i> 1368:7-18, 1998.					
	BJ	Block et al., "Chemical Modifications and Active Site Labeling of the Mitochondrial ADP/ATP Carrier," <i>Methods in Enzymology</i> 125:658-670, 1986.					
	BK	Block et al., "Fluorescent Probes of the Mitochondrial ADP/ATP Carrier Protein," <i>Methods in Enzymology</i> 125: 639-649, 1986.					
	BL	Block et al., "Atractyloside and Bongkreikic Acid Sites in the Mitochondrial ADP/ATP Carrier Protein," <i>FEBS Letters</i> 131(2):213-218, 1981.					
	BM	Block et al., "Chemical Modifications and Active Site Labeling of the Mitochondrial ADP/ATP Carrier," <i>Methods in Enzymology</i> 125:658-670, 1986.					
	BN	Bojanovski et al., "Studies on the Adenine Nucleotide Translocase from Rat Liver Mitochondria," <i>Eur. J. Biochem.</i> 71:539-548, 1976.					
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CA							
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION	
						YES	NO
CB							
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	CC	Boulay et al., "Photolabeling Approach to the Study of the Topography of the Atractyloside Binding Site in Mitochondrial Adenosine 5'-Diphosphate/Adenosine 5'-Triphosphate Carrier Protein," <i>Biochemistry</i> 22: 477-484, 1983.					
	CD	Boulay et al., "Synthesis and Properties of Fluorescent Derivatives of Atractyloside as Potential Probes on the Mitochondrial ADP/ATP Carrier Protein," <i>Analytical Biochemistry</i> 128:323-330, 1983.					
	CE	Brandolin et al, "Partial Purification of an Atractyloside-Binding Protein from Mitochondria," <i>FEBS Letters</i> 46(1):149-153, September 1974.					
	CF	Brandolin et al., "Substrate-Induced Modifications of the Intrinsic Fluorescence of the Isolated Adenine Nucleotide Carrier Protein: Demonstration of Distinct Conformational States," <i>Biochemistry</i> 24:1991-1997, 1985.					
	CG	Brustovetsky and Klingenberg, "Mitochondrial ADP/ATP Carrier Can Be Reversibly Converted Into a Large Channel by Ca <sup>2+</sup> ," <i>Biochemistry</i> 35:8483-8488, 1996.					
	CH	Brunelli and Pall, "A Series of Yeast Shuttle Vectors for Expression of cDNAs and Other DNA Sequences," <i>Yeast</i> 9: 1299-1308, 1993.					
	CI	Byrn et al., "Biological Properties of a CD4 Immunoaderhin," <i>Nature</i> 344(6267):667-673, April 12, 1990.					
	CJ	Carra and Schleif, "Variation of half-site organization and DNA looping by AraC protein," <i>EMBO J.</i> 12(1):35-44, 1993					
	CK	Chung, A. et al., "Transcriptional Control of Nuclear Genes for the Mitochondrial Muscle ADP/ATP Translocator and the ATP Synthase Beta Subunit. Multiple Factors Interact ith the OXBOX/REBOX Promoter Sequences," <i>J. Biol. Chem.</i> 267(29):21154-61, October 1992.					
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						YES	NO
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<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	DC	Cozens et al., "DNA Sequences of Two Expressed Nuclear Genes for Human Mitochondrial ADP/ATP Translocase," <i>J. Mol. Biol.</i> 206:261-280, 1989.					
	DD	Doerner et al., "Tissue-Specific Transcription Pattern of the Adenine Nucleotide Translocase Isoforms in Humans," <i>FEBS Letters</i> 414(2):258-262, 1997.					
	DE	Dörner et al., "Transcription of the Adenine Nucleotide Translocase Isoforms in Various Types of Tissues in the Rat," <i>Biochimica et Biophysica Acta</i> 1417:16-24, 1999.					
	DF	Dümmler et al., "Regulation of Adenine Nucleotide Translocase and Glycerol 3-Phosphate Dehydrogenase Expression by Thyroid Hormones In Different Rat Tissues," <i>Biochem. J.</i> 317:913-918, 1996.					
	DG	Faure-Vigny et al., "Expression of Oxidative Phosphorylation Genes in Renal Tumors and Tumoral Cell Lines," <i>Molecular Carcinogenesis</i> 16:165-172, 1996.					
	DH	Fiore et al., "The Mitochondrial ADP/ATP Carrier: Structural, Physiological and Pathological Aspects," <i>Biochimie</i> 80:137-150, 1998.					
	DI	GenBank Acc. No. N86710, April 1, 1996.					
	DJ	Gilbert, <i>Developmental Biology</i> , fourth ed., Sinauer Associates, Inc., 1994, Chapter XIV, "Autonomous Cell Specification By Cytoplasmic Determinants," pp. 493-530.					
	DK	Giraud et al., "Expression of Human ANT2 Gene in Highly Proliferative Cells: GRBOX, a New Transcriptional Element, Is Involved in the Regulation of Glycolytic ATP Import Into Mitochondria," <i>J. Mol. Biol.</i> 281: 409-418, 1998.					
	DL	Girón-Calle et al., "Peroxidative Damage to Cardiac Mitochondria: II. Immunological Analysis of Modified Adenine Nucleotide Translocase," <i>Archives of Biochemistry and Biophysics</i> 315(1):1-7, November 15, 1994.					
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							YES NO
	EB						
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	EC	Gottikh et al., "The General Synthetic Route to Amino Acid Esters of Nucleotides and Nucleoside-5'-Triphosphates and Some Properties of These Compounds," <i>Tetrahedron</i> 26:4419-4433, 1970.					
	ED	Graham et al., "A Mouse Model for Mitochondrial Myopathy and Cardiomyopathy Resulting From a Deficiency in a Heart/Muscle Isoform of the Adenine Nucleotide Translocator," <i>Nature Genetics</i> 16:226-234, July 1997.					
	EE	Green and Reed, "Mitochondria and Apoptosis," <i>Science</i> 281:1309-1312, August 28, 1998.					
	EF	Green, "Apoptotic Pathways: The Roads to Ruin," <i>Cell</i> 94:695-698, September 18, 1998.					
	EG	Guzman et al., "Tight Regulation, Modulation, and High-Level Expression by Vectors Containing the Arabinose P <sub>BAD</sub> Promotor," <i>J. Bacteriol.</i> 177(14):4121-4130, July 1995.					
	EH	Haldimann et al., "Use of New Methods for Construction of Tightly Regulated Arabinose and Rhamnose Promoter Fusions in Studies of the <i>Escherichia coli</i> Phosphate Regulon," <i>J. Bacteriol.</i> 180(5):1277-1286, March 1998.					
	EI	Halestrap et al., "Elucidating the molecular mechanism of the permeability transition pore and its role in reperfusion injury of the heart," <i>Biochim. Biophys. Acta.</i> 1366:79-94, 1998.					
	EJ	Halestrap et al., "Oxidative Stress, Thiol Reagents, and Membrane Potential Modulate the Mitochondrial Permeability Transition by Affecting Nucleotide Binding to the Adenine Nucleotide Translocase," <i>The J. of Biological Chemistry</i> 272(6):3346-3354, February 7, 1997.					
	EK	Hatanaka, T. et al., "Significant Expression of Functional Human Type 1 Mitochondrial ADP/ATP Carrier in Yeast Mitochondria," <i>Biol. Pharm Bull.</i> 24(6):595-9, June 2001.					
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						YES	NO
	FB						
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	FC	Heimpel, S. et al., "Expression of the Mitochondrial ADP/ATP Carrier in Escherichia Coli. Renaturation, Reconstitution, and the Effect of Mutations on 10 Positive Residues," <i>J. Biol. Chem.</i> 276(15):11499-506, April 2001.					
	FD	Hopp et al., "A Short Polypeptide Marker Sequence Useful for Recombinant Protein Identification and Purification," <i>Bio/Technology</i> 6:1204-1210, October 1988.					
	FE	Ichas and Mazat, "From Calcium Signaling to Cell Death: Two Conformations for the Mitochondrial Permeability Transition Pore. Switching From Low- to High-Conductance State," <i>Biochimica et Biophysica Acta</i> 1366:33-50, 1998.					
	FF	Klingenberg "Dialectics in Carrier Research: The ADP/ATP Carrier and the Uncoupling Protein," <i>J. of Bioenergetics and Biomembranes</i> 25(5):447-457, 1993.					
	FG	Klingenberg et al., "Isolation of the ADP, ATP Carrier as the Carboxyatractylate Protein Complex from Mitochondria," <i>Biochimica et Biophysica Acta</i> 503:193-210, 1978.					
	FH	Klingenberg, "Principles of Carrier Catalysis Elucidated by Comparing Two Similar Membrane Translocators from Mitochondria, the ADP/ATP Carrier and the Uncoupling Protein," <i>Annals New York Academy of Sciences</i> 456:279-280, 1985.					
	FI	Klingenberg, "The ADP-ATP Translocation in Mitochondria, a Membrane Potential Controlled Transport," <i>J. Membrane Biol.</i> 56:97-105, 1980.					
	FJ	Kroemer et al., "The Mitochondrial Death/Life Regulator in Apoptosis and Necrosis," <i>Annu. Rev. Physiol.</i> 60:619-642, 1998.					
	FK	Kroemer et al., "The Biochemistry of Programmed Cell Death," <i>FASEB J.</i> 9:1277-87, October 1995.					
	FL	Kroemer, "The Proto-Oncogene Bcl-2 and Its Role in Regulating Apoptosis," <i>Nature Medicine</i> 3(6):614-620, June 1997.					
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						YES	NO
	GB						
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	GC	Ku et al., "The Human Fibroblast Adenine Nucleotide Translocator Gene: Molecular Cloning and Sequence," <i>The J. of Biological Chemistry</i> 265(27):16060-16063, September 1990.					
	GD	Lau and Chan, "Efflux of Adenine Nucleotides in Mitochondria from Rat Tumor Cells of Varying Growth Rates," <i>Cancer Research</i> 44:4458-4464, October 1984.					
	GE	Lauquin et al., "Aryl-Azido Atractylosides as Photoaffinity Labels for the Mitochondrial Adenine Nucleotide Carrier," <i>FEBS Letters</i> 67(3):306-311, September 1976.					
	GF	Lauquin and Vignais, "Interaction of [ <sup>3</sup> H]Bongkrekic Acid with the Mitochondrial Adenine Nucleotide Translocator," <i>Biochemistry</i> 15(11):2316-2322, 1976.					
	GG	Lauquin et al., "Isobongkrekic Acid, a New Inhibitor of Mitochondrial ADP-ATP Transport: Radioactive Labeling and Chemical and Biological Properties," <i>Biochemistry</i> 15(11):2323-2327, 1976.					
	GH	Le Saux, A. et al., "Conformational Changes of the Yeast Mitochondrial Adenosine Diphosphate/Adenosine Triphosphate Carrier Studied Through its Intrinsic Fluorescence. 1. Tryptophanyl Residues of the Carrier Can be Mutated Without Impairing Protein Activity," <i>Biochemistry</i> 35(50):16116-24, December 1996.					
	GI	Li et al., "A Human Muscle Adenine Nucleotide Translocator Gene has Four Exons, is Located on Chromosome 4, and is Differentially Expressed," <i>J. Biol. Chem.</i> 264(24):13998-4004, August 1989.					
	GJ	Li et al., "OXBOX, a Positive Transcriptional Element of the Heart-Skeletal Muscle ADP/ATP Translocator Gene," <i>The J. of Biological Chemistry</i> 265(33):20585-20588, November 25, 1990.					
	GK	Liu et al., "Induction of Apoptotic Program in Cell-Free Extracts: Requirement for dATP and Cytochrome c," <i>Cell</i> 86:147-157, July 12, 1996.					
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	HA						
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		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION	
						YES	NO
	HB						
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	HC	Louvi and Tsitilou, "A cDNA Clone Encoding the ADP/ATP Translocase of <i>Drosophila Melanogaster</i> Shows a High Degree of Similarity with the Mammalian ADP/ATP Translocases," <i>J. Mol. Evol.</i> 35:44-50, 1992.					
	HD	Lunardi and Attardi, "Differential Regulation of Expression of the Multiple ADP/ATP Translocase Genes in Human Cells," <i>The J. of Biological Chemistry</i> 266(25):16534-16540, September 5, 1991.					
	HE	Lunardi et al., "The Multiple ADP/ATP Translocase Genes are Differentially Expressed During Human Muscle Development," <i>The J. of Biological Chemistry</i> 267(22):15267-15270, August 5, 1992.					
	HF	Lutz and Bujard, "Independent and Tight Regulation of Transcriptional Units in <i>Escherichia coli</i> Via the LacR/O, the TetT/O and AraC/I <sub>1</sub> -I <sub>2</sub> Regulatory Elements," <i>Nucleic Acids Research</i> 25(6):1203-1210, 1997.					
	HG	Marzo et al., "Bax and Adenine Nucleotide Translocator Cooperate in the Mitochondrial Control of Apoptosis" <i>Science</i> 281: 2027-2031, September 1998.					
	HH	Majima et al., "Binding of the Fluorescein Derivative Eosin Y to the Mitochondrial ADP/ATP Carrier: Characterization of the Adenine Nucleotide Binding Site," <i>Biochemistry</i> 37(1):424-432, January 6, 1998.					
	HI	Makrides, "Strategies for Achieving High-Level Expression of Genes in <i>Escherichia coli</i> ," <i>Microbiological Reviews</i> 60(3):512-538, 1996.					
	HJ	Mayer, "A New Set of Useful Cloning and Expression Vectors Derived From pBlueScript," <i>Gene</i> 163:41-46, 1995.					
	HK	Miroux, B. et al., "Over-Production of Proteins in <i>Escherichia Coli</i> : Mutant Hosts that Allow Synthesis of Some Membrane Proteins and Globular Proteins at High Levels," <i>J. Mol. Biol.</i> 260(3):289-98, July 1996.					
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IA						

## FOREIGN PATENT DOCUMENTS

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				YES	NO
IB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

IC	Murdock et al., "Up-Regulation of Nuclear and Mitochondrial Gene in the Skeletal Muscle of Mice Lacking the Heart/Muscle Isoform of the Adenine Nucleotide Translocator," <i>Journal of Biological Chemistry</i> 274(20):14429-14433, May 14, 1999.
ID	Neckelmann et al., "cDNA Sequence of a Human Skeletal Muscle ADP/ATP Translocator: Lack of a Leader Peptide, Divergence from a Fibroblast Translocator cDNA, and Coevolution with Mitochondrial DNA Genes," <i>Proc. Natl. Acad. Sci. USA</i> 84:7580-7584, November 1987.
IE	Nelson et al., "Highly Conserved Charge-Pair Networks in the Mitochondrial Carrier Family," <i>J. Mol. Biol.</i> 277(2):285-308, 1998.
IF	Newmeyer et al., "Cell-Free Apoptosis in Xenopus Egg Extracts: Inhibition by Bcl-2 and Requirement for an Organelle Fraction Enriched in Mitochondria," <i>Cell</i> 79:353-364, October 21, 1994.
IG	O'Gorman et al., "Differential Effects of Creatine Depletion on the Regulation of Enzyme Activities and on Creatine-Stimulated Mitochondrial Respiration in Skeletal Muscle, Heart, and Brain," <i>Biochimica et Biophysica Acta</i> 1276:161-170, 1996.
IH	Obatomi and Bach, "Inhibition of Mitochondrial Respiration and Oxygen Uptake in Isolated Rat Renal Tubular Fragments by Atractyloside," <i>Toxicol. Lett.</i> 89:155-161, 1996.
II	Paradies et al., "Age-Dependent Decline in the Cytochrome c Oxidase Activity in Rat Heart Mitochondria: Role of Cardiolipin," <i>FEBS Letters</i> 406:136-138, 1997.
IJ	Paradies et al., "Lipid Peroxidation and Alterations to Oxidative Metabolism in Mitochondria Isolated from Rat Heart Subjected to Ischemia and Reperfusion," <i>Free Radical Biology &amp; Medicine</i> 27(1/2):42-50, July 1999.
IK	Piozzi et al., "Struttura dell'attractilioside," <i>Gazzetta Chimica Italiana</i> 97(6): 935-954, 1967. (English summary on page 936)

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							YES NO
	JB						
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	JC	Piozzi et al., "Structure of Atroctyloside," Chemical Abstracts Acc. No. 517201, 1967.					
	JD	Plano et al., "Rickettsia Prowazekii and ATP/ADP Translocase, Analysis of Gene Fusions Encoding $\beta$ -Galactosidase- ATP/ADP Translocase Fusion Proteins," <i>Annals of the New York Academy of Sciences</i> 590: 397-407, 1990.					
	JE	Portman et al., "Maturation Changes in Gene Expression for Adenine Nucleotide Translocator Isoforms and $\beta$ F <sub>1</sub> -ATPase in Rabbit Heart," <i>Molecular Genetics and Metabolism</i> 66(2):75-79, February 1999.					
	JF	Powers et al., "On the Relationship Between the Mitochondrial Inner Membrane Anion Channel and the Adenine Nucleotide Translocase," <i>The J. of Biological Chemistry</i> 269(14):10614-10620, April 8, 1994.					
	JG	Rindinsbacher, L. et al., "Production of Human Secretory Component with Dimeric Iga Binding Capacity Using Viral Expression Systems," <i>J. Biol. Chem.</i> 270(23):14220-8, June 1995.					
	JH	Rojo, M. et al., "The Mitochondrial ATP/ADP Carrier: Interaction with Detergents and Purification by a Novel Procedure," <i>Biochim Biophys Acta</i> 1187(3):360-7, September 1994.					
	JI	Rosenberg, <i>Protein Analysis and Purification: Benchtop Techniques</i> , Birkhauser, Boston, pp. 335-347, 1996.					
	JJ	Roux et al., "Fluorometric Titration of the Mitochondrial ADP/ATP Carrier Protein in Muscle Homogenate with Atractyloside Derivatives," <i>Analytical Biochemistry</i> 234:31-37, 1996.					
	JK	Rück et al., "Reconstituted Adenine Nucleotide Translocase Forms a Channel for Small Molecules Comparable to the Mitochondrial Permeability Transition Pore," <i>FEBS Letters</i> 426(1):97-101, April 10, 1998.					
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<b>FOREIGN PATENT DOCUMENTS</b>							
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							YES NO
	KB						
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	KC	Santi and Luciani, <i>Atractyloside/ Chemistry, Biochemistry and Toxicology</i> , Piccin Medical Books, Padova, Italy, 1978.					
	KD	Sheldon et al., "Strain-Related Brain Injury in Neonatal Mice Subjected to Hypoxia-Ischemia," <i>Brain Research</i> 810:114-122, 1998.					
	KE	Shinohara et al., "Isolation and Characterization of cDNA Clones and a Genomic Clone Encoding Rat Mitochondrial Adenine Nucleotide Translocator," <i>Biochimica et Biophysica Acta</i> 1152:192-196, 1993.					
	KF	Simbula et al., "Two Mechanisms by Which ATP Depletion Potentiates Induction of the Mitochondrial Permeability Transition," <i>American J. of Physiology</i> 273:479-488, 1997.					
	KG	Smagula and Douglas, "Mitochondrial Import of the ADP/ADP Carrier Protein in <i>Saccharomyces Cerevisiae</i> ," <i>Journal of Biological Chemistry</i> 263(14): 6783-6790, May 15, 1988.					
	KH	Stepien et al., "Differential Expression of Adenine Nucleotide Translocator Isoforms in Mammalian Tissues and During Muscle Cell Differentiation," <i>The J. of Biological Chemistry</i> 267(21):14592-14597, July 25, 1992.					
	KI	Sterling, "Direct Thyroid Hormone Activation of Mitochondria: The Role of Adenine Nucleotide Translocase," <i>Endocrinology</i> 119(1):292-295, 1986.					
	KJ	Stubbs, "Inhibitors of the Adenine Nucleotide Translocase," <i>Pharmac. Ther.</i> 7:329-349, 1979.					
	KK	Sul et al., "Comparison of the Adenine Nucleotide Translocase in Hepatomas and Rat Liver Mitochondria," <i>Biochimica et Biophysica Acta</i> 551:148-156, 1979.					
	KL	Tjaden et al. "Expression of a Plastidic ATP/ADP Transporter Gene in <i>Escherichia Coli</i> Leads to a Functional Adenine Nucleotide Transport System in the Bacterial Cytoplasmic Membrane," <i>Journal of Biological Chemistry</i> 273(16): 9630-9636, 1998.					
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						YES	NO
	LB						
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	LC	Vignais et al., "Adenosine Diphosphate Translocation in Mitochondria. Nature of the Receptor Site for Carboxyatractyloside (Gummiferin)," <i>Biochemistry</i> 12(8): 1508-1519, 1973.					
	LD	Vignais et al., "[60] <sup>3</sup> H- or <sup>35</sup> S-Labeled Atractyloside and Carboxyatractyloside, Atractyloside Derivatives Used for Affinity Chromatography, Photoaffinity Labeling, and Spin Labeling, and <sup>3</sup> H- or <sup>14</sup> C-Labeled Bongkrekeic Acid," <i>Methods in Enzymology</i> 55:518-533, 1979.					
	LE	Vercesi et al., "The Role of Reactive Oxygen Species in Mitochondrial Permeability Transition," <i>Bioscience Reports</i> 17(1):43-51, 1997.					
	LF	Wallace et al., <i>Mitochondria &amp; Free Radicals in Neurodegenerative Diseases</i> , Beal, Howell and Bodis-Wollner, Eds., Wiley-Liss, New York, 1997, Chapter 13, "Mitochondrial Defects in Neurodegenerative Diseases," pp. 283-307.					
	LG	Wenzel-Seifert, K. et al., "Quantitative Analysis of Formyl Peptide Receptor Coupling to G(i)alpha(1), G(i)alpha(2), and G(i)alpha(3)," <i>J. Biol. Chem.</i> 274(47):33259-66, November 1999.					
	LH	Wilson et al., "The Structure of an Antigenic Determinant in a Protein," <i>Cell</i> 37(3):767-778, July 1984.					
	LI	Wilson, "Apoptosis: Unmasking the Executioner," <i>Cell Death and Differentiation</i> 5:646-652, 1998.					
	LJ	Woldegiorgis and Shrago, "Adenine Nucleotide Translocase Activity and Sensitivity to Inhibitors in Hepatomas," <i>The J. of Biological Chemistry</i> 260(12):7585-7590, June 25, 1985.					
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					YES	NO
	MF					
	MG					
	MH					
	MI					
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	MK	Woodfield et al., "Direct Demonstration of a Specific Interaction Between Cyclophilin-D and the Adenine Nucleotide Translocase Confirms Their Role in the Mitochondrial Permeability Transition," <i>Biochem. J.</i> 336:287-290, 1998.
	ML	Yan and Sohal, "Mitochondrial Adenine Nucleotide Translocase is Modified Oxidatively During Aging," <i>Proc. Natl. Acad. Sci. USA</i> 95:12896-12901, October 1998.
	MM	Yasuda et al., "Regulation of Apoptosis by a <i>Caenorhabditis Elegans</i> BNIP3 Homolog," <i>Oncogene</i> 17(18):2525-2530, 1998.
	MN	Zamzami et al., "Reduction in Mitochondrial Potential Constitutes an Early Irreversible Step of Programmed Lymphocyte Death in Vivo," <i>J. Exp. Med.</i> 181:1661-1672, May 1995.
	MO	Zamzami et al., "Sequential Reduction of Mitochondrial Transmembrane Potential and Generation of Reactive Oxygen Species in Early Programmed Cell Death," <i>J. Exp. Med.</i> 182:367-377, August 1995.

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